

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	•
	10/029,929	12/31/2001	Tommy Kristensen Bysted	1076.41047X00	5905	
	20457 7	20457 7590 11/22/2005		EXAMINER		
		•	ERRY, STOUT & KRAUS, LLP /ENTEENTH STREET	KHOO, FOONG LIN		
	SUITE 1800 ARLINGTON, VA 22209-3873		ART UNIT	PAPER NUMBER		
			2664		•	

DATE MAILED: 11/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	i x					
	Application No.	Applicant(s)				
	10/029,929	BYSTED ET AL.				
Office Action Summary	Examiner	Art Unit				
	F. Lin Khoo	2664				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of a Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>31 D</u>	<u>ecember 2001</u> .					
	action is non-final.					
3) Since this application is in condition for alloward closed in accordance with the practice under E						
Disposition of Claims						
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examine	9) The specification is objected to by the Examiner.					
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Art Unit: 2664

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: On page 5, paragraph 7, line 5, "memory 210" is not shown in Fig.3.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

2. Claims 1-6 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6 of copending Application No. 10/029,974. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following:

Art Unit: 2664

With respect to claims 1 and 4, the instant application claims all the limitations of claims 1 and 4, respectively, of the copending Application 10/029,974 except selected manner in dependence on the modulation method employed in physical layer. In accordance with In re Van Ornum, 686 F.2d 937, 942-43, 214 USPQ 761, 766(CCPA 1982), claims 1 and 4 of the instant application would dominate claims 1 and 4, respectively, of copending Application 10/029,974 since a code identifying selected manners included in physical layer signal is broader and inclusive of the modulation method.

With respect to claims 2 and 5, the claims correspond to claims 3 and 6, respectively, of the copending Application 10/029,974.

With respect to claims 3 and 6, the instant application claims all the limitations of claims 3 and 6, respectively, of the copending Application 10/029,974 except code in each burst. In accordance with In re Van Ornum, 686 F.2d 937, 942-43, 214 USPQ 761, 766(CCPA 1982), claims 3 and 6 of the instant application would dominate claims 3 and 6, respectively, of copending Application 10/029,974 since a code distributed across a plurality of bursts is broader and inclusive of the code in each burst.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-3, 4-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Hiramatsu (U.S. Publication No. 2003/0072253).

Regarding Claim 1, Hiramatsu discloses a method of transmitting a radio signal, the method comprising implementing a protocol stack having at least a physical layer and a medium access control layer including a plurality of transport channels which are multiplexed to produce a physical layer signal, each transport channel being processed in a respectively selected manner, wherein a code identifying said selected manners is included in said physical layer signal (all terrestrial mobile radio communication inherently conforms to a OSI reference model protocol stack with a medium access control layer (layer 2) and a physical layer (layer 1) which includes a plurality of transport channels which are multiplexed to produce a physical layer signal, as evidenced in Technical Specification 3GPP TS 25.302 V3.6.0, Sections 4 and 5. The TFCI is a signal for reporting the Downlink Shared Channel (DSCH) transmission format to the receiving side and this is associated with each transport channel being processed

Art Unit: 2664

in a respectively selected manner, wherein a code identifying said selected manners is included in said physical layer signal. Note: the transmission format or transport format is the selected manner being processed and the code is the TFCI identifying the selected manners (see paragraph [0026] and also evidenced in Technical Specification 3GPP TS 25.302 V3.6.0, Sections 4, 5 and 7).

Regarding Claim 2, Hiramatsu discloses wherein said physical layer signal comprises a TDMA signal and said code is transmitted in predetermined locations (Fig. 5; see paragraphs [0005, 0026, 0030]. A DSCH is a channel for transmitting QAM modulated data to mobile station apparatuses by time division, and the mobile station apparatus being transmitted to can be changed every frame. The time division and frame are associated with a TDMA signal and the code (TFCI) transmitted in predetermined locations is shown in Fig. 5. This is further evidenced in the Technical Specification 3G·TS 25 221 V3.0.0, Sections 5, 5.1 and 5.2.2.1).

Regarding Claim 3, Hiramatsu discloses wherein said code is distributed across a plurality of bursts (Fig. 5; see paragraphs [0005, 0026, 0030]. A DSCH is a channel for transmitting QAM modulated data to mobile station apparatuses by time division, and the mobile station apparatus being transmitted to can be changed every frame. Transmitting by time division is related to transmission of traffic burst at each interval of time and in Fig. 5, the code (TFCI) located in predetermined locations in each frame is associated with the code distributed across a plurality of burst. This is further evidenced in the Technical Specification 3G TS 25 221 V3.0.0, Sections 5, 5.1 and 5.2.2.1).

Claims 4-6 are similar in scope as that of corresponding claims 1-3 and hence are rejected for the same reasons set forth above. A radio transmitter for performing the method of transmitting a radio signal is inherent (Fig. 4, apparatus 100; see paragraph [0023]).

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Patent No. 6,826,193 to Peisa relates to a method of allocating transmission resources at a Media Access Control (MAC) entity of a node of a Universal Mobile Telecommunications System (UMTS).
- U.S. Patent No. 6,909,887 to Fauconnier et al. relates to a method of controlling a circuit mode communication logical channel between a radio terminal and a cellular radiocommunication infrastructure.
- U.S. Patent No. 6,813,284 to Vayanos et al. relates to a method and system that enables multiplexing a plurality of data streams onto one data stream based on data stream priorities, available transport format combinations (TFCs), and transmission time interval (TTI) constraints of transport frames within the TFCs.

Application/Control Number: 10/029,929 Page 7

Art Unit: 2664

U.S. Patent No. 6,646,993 to Davies et al. relates to a communication apparatus and method of format adaptation particularly suited for a CDMA cellular communication system.

U.S. Patent No. 2005/0018614 to Kiran relates to a receiver for data-rate detection in a signal received from a transmitter of a cellular radio communication system including multiple transport channels supporting variable data-rate transmissions.

The above prior art are cited to further show the same field of endeavor with respect to the applicant's claimed invention.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F. Lin Khoo whose telephone number is 571-272-5508. The examiner can normally be reached on flex time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/029,929

Art Unit: 2664

Page 8

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WELLINGTON CHIN
SUPERVISORY PATENT EXAMINER